

## State wise Forest Cover in India

(Sq.Kms.)

S.No.	States/ Union Territories	Very Dense Forest			Moderately Dense Forest			Open Forest			TOTAL FOREST COVER			Scrub		
		2004-05	2010-11	2015-16	2004-05	2010-11	2015-16	2004-05	2010-11	2015-16	2004-05	2010-11	2015-16	2004-05 *	2010-11	2015-16
1	Andhra Pradesh	820	366	1957	24805	13163	14051	19606	10828	12139	45231	24357	28147	9862	10465	9560
2	Arunachal Pradesh	20859	20828	20721	31632	31414	30955	14981	15079	15288	67472	67321	66964	128	121	247
3	Assam	1464	1444	2797	11653	11345	10192	14641	14882	15116	27758	27671	28105	146	182	217
4	Bihar	232	247	332	3253	3380	3260	3322	3664	3707	6807	7291	7299	129	115	228
5	Chhattisgarh	4166	4153	7064	35146	34865	32215	16617	16603	16268	55929	55621	55547	91	117	552
6	Goa	511	543	538	626	585	576	1019	1091	1115	2156	2219	2229	2	0	0
7	Gujarat	376	376	378	5319	5220	5200	8909	9057	9179	14604	14653	14757	1495	1492	2194
8	Haryana	26	27	28	488	453	452	1090	1106	1108	1604	1586	1588	165	150	154
9	Himachal Pradesh	3224	3224	3110	6386	6381	6705	5056	5078	5285	14666	14683	15100	383	298	308
10	Jammu & Kashmir	4298	4140	4075	8977	8760	8579	9414	9638	10587	22689	22538	23241	2821	2105	573
11	Jharkhand	2595	2587	2598	9892	9667	9686	10235	11219	11269	22722	23473	23553	733	670	669
12	Karnataka	1772	1777	4502	20196	20179	20444	14232	14176	12604	36200	36132	37550	3151	3216	4484
13	Kerala	1443	1529	1663	9404	9401	9407	6437	6992	9251	17284	17922	20321	70	29	23
14	Madhya Pradesh	6648	6632	6563	35035	34921	34571	36056	35969	36280	77739	77522	77414	2172	6389	6279
15	Maharashtra	8747	8720	8736	20847	20770	20652	21067	21142	21294	50661	50632	50682	4248	4157	4160
16	Manipur	689	728	908	5522	6094	6510	10741	10168	9928	16952	16990	17346	39	1	1111
17	Meghalaya	334	449	453	9527	9689	9386	7344	7150	7307	17205	17288	17146	181	372	505
18	Mizoram	134	138	131	6384	5900	5861	12082	13016	12194	18600	19054	18186	0	0	0
19	Nagaland	1280	1298	1279	5072	4736	4587	7313	7010	6623	13665	13044	12489	13	2	503
20	Odisha	7077	7042	6967	21421	21298	21370	20257	22007	23008	48755	50347	51345	4743	4424	4306
21	Punjab	0	0	8	738	736	806	922	1036	1023	1660	1772	1837	15	37	33
22	Rajasthan	72	72	78	4454	4424	4340	11486	11590	12154	16012	16086	16572	4527	4211	4579
23	Sikkim	500	500	1081	2161	2161	1575	696	697	688	3357	3358	3344	363	311	307
24	Tamil Nadu	2925	2948	3672	10189	10199	10979	10200	10697	11630	23314	23844	26281	1808	1212	657
25	Telangana		484	1596		12916	8738		8359	10085		21759	20419			3238
26	Tripura	113	109	656	4816	4641	5246	3244	3116	1824	8173	7866	7726	59	66	15
27	Uttar Pradesh	1626	1623	2617	4569	4550	4069	8151	8176	7993	14346	14349	14679	738	806	551
28	Uttarakhand	4762	4785	4969	14170	14111	12884	5561	5612	6442	24493	24508	24295	320	262	383
29	West Bengal	2992	2971	2994	4646	4146	4147	5332	9688	9706	12970	16805	16847	68	111	136
30	Andaman & Nicobar Islands	3779	3754	5678	2414	2413	684	470	544	380	6663	6711	6742	3	57	1
31	Chandigarh	1	1.36	1.36	10	9.66	13.82	6	6.24	6.38	17	17.26	21.56	1	0.56	0.02
32	Dadra & Nagar Haveli	0	0	0	115	114	80	101	99	127	216	213	207	0	1	5
33	Daman & Diu	0	0	1.40	1	1.87	5.82	5	7.4	13.27	6	9.27	20.49	0	0.96	0.27
34	Delhi	7	6.76	6.72	50	49.38	56.24	120	123.67	129.45	177	179.81	192.41	0.62	2.24	0.67
35	Lakshadweep	0	0	0	16	17.18	17.04	10	9.88	10.06	26	27.06	27.10	0	0	0
36	Puducherry	0	0	0	14	35.23	17.60	28	14.83	36.07	42	50.06	53.67	0	0	0
	<b>TOTAL</b>	<b>83472</b>	<b>83502</b>	<b>98158</b>	<b>319948</b>	<b>318745</b>	<b>308318</b>	<b>286751</b>	<b>295651</b>	<b>301797</b>	<b>690171</b>	<b>697898</b>	<b>708273</b>	<b>38475</b>	<b>41383</b>	<b>45979</b>

\*Statewise total for scrub 2004-05 may not match with the scrub total(revised figure) for 2004-05 mentioned in Table 2.3

Source : India State of Forest Report (ISFR), Forest Survey of India (FSI)

## Annexure 2.2

## State wise Growing Stock in India

(million cum)

S.No.	States/ Union Territories	In Forest			In TOF			Total		
		2006-07	2010-11	2015-16	2006-07	2010-11	2015-16	2006-07	2010-11	2015-16
1	Andhra Pradesh	242.39	195.83	156.04	122.76	102.15	62.35	365.15	297.98	218.39
2	Arunachal Pradesh	492.54	439.51	420.79	79.20	87.94	90.70	571.73	527.45	511.49
3	Assam	174.11	151.90	133.13	42.44	38.09	30.20	216.55	189.99	163.32
4	Bihar	34.83	29.33	28.50	45.13	41.66	37.47	79.96	70.99	65.99
5	Chhattisgarh	335.47	347.11	323.66	72.64	76.31	86.35	408.11	423.42	410.01
6	Goa	7.39	10.33	9.52	4.00	3.91	3.83	11.39	14.24	13.35
7	Gujarat	48.28	50.62	52.03	122.12	109.01	113.99	170.40	159.63	166.02
8	Haryana	4.89	5.39	5.41	15.58	14.19	15.49	20.47	19.58	20.90
9	Himachal Pradesh	322.40	317.30	315.58	21.23	20.76	23.20	343.63	338.06	338.78
10	Jammu & Kashmir	255.12	232.18	232.84	149.46	145.06	146.08	404.59	377.25	378.92
11	Jharkhand	103.78	103.73	117.09	53.32	55.95	64.39	157.11	159.68	181.48
12	Karnataka	314.57	294.63	327.66	105.26	89.53	89.59	419.83	384.16	417.25
13	Kerala	142.72	152.27	167.09	50.05	45.79	51.90	192.77	198.06	218.98
14	Madhya Pradesh	249.66	251.00	285.61	86.49	82.98	97.47	336.15	333.98	383.09
15	Maharashtra	294.17	208.50	252.57	151.40	139.70	164.55	445.58	348.20	417.12
16	Manipur	69.24	50.29	53.20	9.61	9.37	7.75	78.85	59.66	60.95
17	Meghalaya	44.97	39.88	38.72	23.47	20.05	17.25	68.45	59.93	55.97
18	Mizoram	69.35	59.36	19.05	9.51	8.17	42.76	78.86	67.52	61.81
19	Nagaland	41.15	37.08	36.90	13.93	11.89	11.43	55.08	48.97	48.32
20	Odisha	285.32	235.77	258.01	77.21	74.49	81.50	362.53	310.26	339.52
21	Punjab	13.73	13.02	12.94	19.39	17.06	20.01	33.12	30.08	32.95
22	Rajasthan	34.64	34.09	46.27	90.46	79.17	81.87	125.10	113.26	128.14
23	Sikkim	19.82	23.84	26.28	2.53	2.42	1.95	22.35	26.26	28.23
24	Tamil Nadu	142.38	116.04	127.81	73.36	62.14	66.26	215.73	178.18	194.07
25	Telangana			60.46			39.66			100.12
26	Tripura	22.21	22.90	21.74	8.04	6.87	6.50	30.25	29.78	28.24
27	Uttar Pradesh	122.96	134.51	135.85	83.44	76.11	88.34	206.40	210.62	224.19
28	Uttarakhand	459.26	473.08	418.33	19.34	19.34	19.86	478.60	492.42	438.19
29	West Bengal	92.46	83.31	76.63	44.85	41.74	38.10	137.31	125.04	114.73
30	Andaman & Nicobar Islands	52.80	57.95	55.93	0.73	0.55	0.58	53.53	58.50	56.51
31	Chandigarh	0.29	0.26	0.32	0.10	0.08	0.10	0.39	0.34	0.42
32	Dadra & Nagar Haveli	3.93	1.81	1.85	0.85	0.72	0.79	4.79	2.53	2.64
33	Daman & Diu	0.01	0.00	0.00	0.11	0.10	0.12	0.11	0.11	0.12
34	Delhi	1.74	0.47	0.51	1.15	1.05	1.27	2.89	1.52	1.78
35	Lakshadweep	0.00	0.00	0.00	0.05	0.05	0.06	0.05	0.05	0.06
36	Puducherry	0.08	0.08	0.07	0.33	0.29	0.30	0.41	0.38	0.36
	<b>TOTAL*</b>	<b>4498.66</b>	<b>4173.36</b>	<b>4218.38</b>	<b>1599.57</b>	<b>1484.68</b>	<b>1604.00</b>	<b>6098.23</b>	<b>5658.05</b>	<b>5822.38</b>

\* Statewise total(i.e column total) may not match with the TOTAL

Source : India State of Forest Report (ISFR), Forest Survey of India (FSI)

## State wise Carbon Stock in forest under different carbon pools for the year 2004-05

(000' tonnes)

S.No.	States/ Union Territories	Forest Cover (sq km )	Above ground biomass (AGB )	Below ground biomass (BGB)	Dead wood	Litter	Soil Organic Carbon (SOC)	TOTAL 2
1	Andhra Pradesh	45231	157184	60967	732	4851	174299	398033
2	Arunachal Pradesh	67472	234110	52489	3753	16080	656444	962876
3	Assam	27758	44543	10240	1050	5411	107680	168924
4	Bihar	6807	16431	6173	109	417	23861	46992
5	Chhattisgarh	55929	203701	67632	2407	6435	272032	552207
6	Goa	2156	4118	1097	91	311	11160	16776
7	Gujarat	14604	34842	12598	313	982	64769	113504
8	Haryana	1604	3946	1356	21	74	7285	12681
9	Himachal Pradesh	14666	63436	16718	525	2367	78178	161224
10	Jammu & Kashmir	22689	96096	26259	745	3106	115505	241711
11	Jharkhand	22722	82419	31876	423	1230	97987	213935
12	Karnataka	36200	116562	33784	1420	17056	270612	439433
13	Kerala	17284	59650	15207	862	6027	117794	199539
14	Madhya Pradesh	77739	260335	99435	1535	6990	314233	682529
15	Maharashtra	50661	141161	48813	1878	8681	278009	478542
16	Manipur	16952	26125	8545	503	3828	99152	138154
17	Meghalaya	17205	23191	6333	789	4924	113861	149098
18	Mizoram	18600	15851	3273	656	2743	75405	97928
19	Nagaland	13665	16578	4273	586	2547	105894	129878
20	Odisha	48755	147088	48749	1845	7541	217860	423082
21	Punjab	1660	4365	1613	24	58	7782	13842
22	Rajasthan	16012	32717	12806	202	641	42750	89115
23	Sikkim	3357	10512	3012	156	456	25595	39731
24	Tamil Nadu	23314	73105	24488	795	4695	108400	211483
25	Telangana							
26	Tripura	8173	14142	2909	515	1595	39756	58917
27	Uttar Pradesh	14346	41682	12620	388	1566	57358	113614
28	Uttarakhand	24493	106354	27499	1255	5655	144927	285689
29	West Bengal	12970	36558	11585	288	1762	69564	119757
30	Andaman & Nicobar Islands	6663	33031	10021	1321	3044	52848	100265
31	Chandigarh	17	44	15	0	1	78	139
32	Dadra & Nagar Haveli	216	523	124	13	44	918	1623
33	Daman & Diu	6	3	1	0	1	28	33
34	Delhi	177	199	45	2	9	564	818
35	Lakshadweep	26	50	*0	1	4	91	146
36	Puducherry	42	89	19	1	7	243	358
	<b>TOTAL 1</b>	<b>690171</b>	<b>2100739</b>	<b>662573</b>	<b>25201</b>	<b>121137</b>	<b>3752924</b>	<b>6662574</b>

\*In Lakshadweep, most of the forest cover is of coconusnucifera for which there was no suitable ratio available for BGB and therefore left unaccounted.

Source : India State of Forest Report (ISFR), Forest Survey of India (FSI)

Note: a)Statewise total for different carbon pools(i.e column total) may not match with the Total 1

b)Carbon pools total for different states (i.e row total) may not match with the Total 2

## State wise Carbon Stock in forest under different carbon pools for the year 2015-16

(000' tonnes)

S.No.	States/ Union Territories	Forest Cover (sq km)	Above ground biomass (AGB )	Below ground biomass (BGB)	Dead wood	Litter	Soil Organic Carbon (SOC)	TOTAL
1	Andhra Pradesh	28147	100539	38585	568	4527	118471	262690
2	Arunachal Pradesh	66964	243462	53378	4305	16231	677163	994539
3	Assam	28105	47343	10824	1093	5240	112352	176852
4	Bihar	7299	19063	6707	138	625	28864	55397
5	Chhattisgarh	55547	206678	68159	2588	7628	275927	560980
6	Goa	2229	5153	1512	250	417	11684	19016
7	Gujarat	14757	32668	11719	322	993	64995	110697
8	Haryana	1588	3736	1269	20	74	7312	12411
9	Himachal Pradesh	15100	70655	18691	739	2511	83186	175782
10	Jammu & Kashmir	23241	112919	30083	1004	3529	128391	275926
11	Jharkhand	23553	86006	33173	438	1298	101967	222882
12	Karnataka	37550	128098	35045	2545	19745	289652	475085
13	Kerala	20321	74166	19245	1058	7436	153976	255881
14	Madhya Pradesh	77414	266040	101516	1654	7741	318713	695664
15	Maharashtra	50682	142651	48947	1986	9385	290052	493021
16	Manipur	17346	27253	8821	530	3909	102578	143091
17	Meghalaya	17146	25168	6835	881	5184	117772	155840
18	Mizoram	18186	15359	3173	633	2652	73224	95041
19	Nagaland	12489	16151	4150	666	2432	101661	125060
20	Odisha	51345	152525	50407	2108	9087	238776	452903
21	Punjab	1837	5095	1883	26	63	8971	16038
22	Rajasthan	16572	32558	12736	216	721	43429	89660
23	Sikkim	3344	13379	3735	211	585	30624	48534
24	Tamil Nadu	26281	84067	29252	1006	5579	109434	229338
25	Telangana	20419	72498	28388	333	3117	80639	184975
26	Tripura	7726	15674	3224	556	1613	42341	63408
27	Uttar Pradesh	14679	47752	14264	444	1824	60850	125134
28	Uttarakhand	24295	105173	26961	1316	5665	145549	284664
29	West Bengal	16847	45382	13916	434	2585	100884	163201
30	Andaman & Nicobar Islands	6742	39426	11901	2048	3702	57996	115073
31	Chandigarh	22	61	19	0	2	122	204
32	Dadra & Nagar Haveli	207	447	106	10	35	827	1425
33	Daman & Diu	20	11	2	0	2	76	91
34	Delhi	192	230	52	2	11	653	948
35	Lakshadweep	27	55	*0	1	5	100	161
36	Puducherry	54	108	23	1	8	311	451
	<b>TOTAL</b>	<b>708273</b>	<b>2237549</b>	<b>698701</b>	<b>30130</b>	<b>136161</b>	<b>3979522</b>	<b>7082063</b>

\* In Lakshadweep, most of the forest cover is of Cocos nucifera for which no suitable ratio for BGB is available.

Source : India State of Forest Report (ISFR), Forest Survey of India (FSI)